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PTO/SB/05 (4/98)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY

Attorney Docket No. PD-02W179 First Inventor or Application Identifier Michael R Revior

| PATENT APPLICATION | | Title LOW PHASE-NOISE LOCAL OCILLATOR AND METHOD | | | | |
|----------------------------|--|--|----------------------------|--------------------------------------|---------------------------------------|--|
| TRANSMITTAL | | Title | | | | |
| Uniy for new | nonprovisional applications under 37 C.F.R. § 1.53(b) | Expre | ss Mail Label No. EV | 7 2911423909 | 000 | |
| | APPLICATION ELEMENTS napter 600 concerning utility patent application content | s. | ADDRESS TO | Assistant C): Box Patent Washington | | |
| | Fee Transmittal Form (e.g., PTO/SB/17) | _ | 5. Microfiche | Computer Pro | ogram (Appendix) | |
| | Submit an original and a duplicate for fee processing) Decification [Total Pages] | ٦, | 6. Nucleotide and/ | or Amino Acid | Sequence Submission | |
| (pi | referred arrangement set forth below) | _ ՝ | (if applicable, all | • / | | |
| | Descriptive title of the Invention | | a. Co | mputer Reada | ble Copy | |
| | - Cross References to Related Applications - Statement Regarding Fed sponsored R & D Paper Copy (identical to computer copy) | | | ntical to computer copy) | | |
| - F | - Reference to Microfiche Appendix c. Statement verifying identity of above copies | | | | ng identity of above copies | |
| _ | Background of the Invention | | ACCOMPA | ACCOMPANYING APPLICATION PARTS | | |
| | Brief Summary of the Invention Brief Description of the Drawings (if filed) | | 7. X Assignmen | nt Papers (cov | er sheet & document(s)) | |
| | Detailed Description | | | 3.73(b) State | | |
| - C | Claim(s) | | | re is an assign | ee) Attorney ument (if applicable) | |
| | Abstract of the Disclosure | ٦. | Information | n Disclosure | Copies of IDS | |
| 3. Dr | awing(s) (35 U.S.C. 113) [Total Sheets 4 | _յ | 10. Statement | (IDS)/PTO-14 | 49 Citations | |
| 4. Oath or I | Declaration [Total Pages |]] | 11. Preliminary | y Amendment | | |
| а. | Newly Executed Combined Declaration and Power of Attorney | | | ceipt Postcard specifically it | | |
| ь. [| Copy from a prior application (37 C.F.R. § (for continuation/divisional with Box 16 complete | 1.63(d |)) * Small En | tity Sta | tement filed in prior application, | |
| | i. DELETION OF INVENTOR(S) | ŕ | 13. Statement | (S) Cta | tus still proper and desired | |
| | Signed statement attached deleting inventor(s) named in the prior applications. | • | 14.1 | opy of Priority oriority is claim | ` ' | |
| | see 37 C.F.R. §§ 1.63(d)(2) and 1.3 | 33(b). | 15. Other: | •••••••• | | |
| FEES, A SMA | <u>ITEMS 1 & 13</u> : IN ORDER TO BE ENTITLED TO PAY SMALL LLL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), E | XCEPT | | | | |
| | D IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1 | | | | | |
| | NTINUING APPLICATION, check appropriate box ontinuation Divisional Continuation-in | | | <i>ion below and in</i> tion No: | | |
| Prior ap | plication information: Examiner | | Grou | up / Art Unit: | | |
| under Box 4b | JATION or DIVISIONAL APPS only: The entire disci o, is considered a part of the disclosure of the acco | ompany | ing continuation or divisi | ionai applicatio | n and is hereby incorporated by | |
| reterence. Ti | he incorporation can only be relied upon when a po | | | nitted from the | submitted application parts. | |
| 17. CORRESPONDENCE ADDRESS | | | | | | |
| Custom | ner Number or Bar Code Label | | | or Corr | espondence address below | |
| | | or Attac | ch bar code label here) | | | |
| Name | Patent Docket Administration RAYTHEON COMPANY | | | | | |
| | Bldg. EO/E4/N119 | | | | **** | |
| Address | P.O. Box 902 | | | · | · | |
| City | El Segundo Sta | te | California | Zip Code | 90245 | |
| Country | United States of America Telephone | 9 | (520) 794.7980 | Fax | (520) 794-8171 | |
| Name (F | PrintType) Thomas J. Finn | | Registration No. (A | Attomey/Agent) | 48,066 | |
| Signature | o Thims ! | | *. | Date | 8/19/03/6/ | |
| Director Davis O | to describe the state of the st | | | | | |

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Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1,27

Thomas J. Finn

Name (Print/Type)

Signature

TOTAL AMOUNT OF PAYMENT

| Complete if Known | | |
|----------------------|-------------------|---|
| Application Number | NOT YET ASSIGNED | |
| Filing Date | HEREWITH | |
| First Named Inventor | Michael R. Beylor | |
| Examiner Name | NOT YET ASSIGNED | |
| Art Unit | NOT YET ASSIGNED | • |
| Attorney Docket No. | PD-02W179 | |

| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | |
|---|--|---------|--|
| Check Credit card Money Other None | 3. ADDITIONAL FEES | | |
| Deposit Account: | Large Entity Small Entity | | |
| Deposit Account 50-0888 | Fee Fee Fee Code (\$) Fee Description | ee Paid | |
| Number | 1051 130 2051 65 Surcharge - late filing fee or oath | | |
| Deposit Account Name | 1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet | | |
| The Commissioner is authorized to: (check all that apply) | 1053 130 1053 130 Non-English specification | | |
| Charge fee(s) indicated below Credit any overpayments | 1812 2,520 1812 2,520 For filing a request for ex parte reexamination | | |
| Charge any additional fee(s) during the pendency of this application | 1804 920* 1804 920* Requesting publication of SIR prior to Examiner action | | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action | | |
| FEE CALCULATION | 1251 110 2251 55 Extension for reply within first month | | |
| 1. BASIC FILING FEE | 1252 410 2252 205 Extension for reply within second month | | |
| Large Entity Small Entity | 1253 930 2253 465 Extension for reply within third month | | |
| Fee Fee Fee Fee Pee Paid Code (\$) Code (\$) | 1254 1,450 2254 725 Extension for reply within fourth month | | |
| 1001 750 2001 375 Utility filing fee 750.00 | 1255 1,970 2255 985 Extension for reply within fifth month | | |
| 1002 330 2002 165 Design filing fee | 1401 320 2401 160 Notice of Appeal | | |
| 1003 520 2003 260 Plant filing fee | 1402 320 2402 160 Filing a brief in support of an appeal | | |
| 1004 750 2004 375 Reissue filing fee | 1403 280 2403 140 Request for oral hearing | | |
| 1005 160 2005 80 Provisional filing fee | 1451 1,510 1451 1,510 Petition to institute a public use proceeding | | |
| SUBTOTAL (1) (\$) 750.00 | 1452 110 2452 55 Petition to revive - unavoidable | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1453 1,300 2453 650 Petition to revive - unintentional | | |
| Fee from | 1501 1,300 2501 650 Utility issue fee (or reissue) | | |
| Extra Claims below Fee Paid Total Claims 23 -20** = 3 X 18. = 54. | 1502 470 2502 235 Design issue fee | | |
| Independent 3 au 0 | 1503 630 2503 315 Plant issue fee | | |
| Claims 3 - 3 - 2 U X 3 - 3 - 2 U X U X X X X X X X X X X X X X X X X | 1460 130 1460 130 Petitions to the Commissioner | | |
| | 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) | | |
| Large Entity Small Entity Fee Fee Fee Fee Fee Description | 1806 180 1806 180 Submission of Information Disclosure Stmt | | |
| Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20 | 8021 40 8021 40 Recording each patent assignment per property (times number of properties) | 40.00 | |
| 1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3 | 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a)) | | |
| 1203 280 2203 140 Multiple dependent claim, if not paid | 1810 750 2810 375 For each additional invention to be | | |
| 1204 84 2204 42 ** Reissue independent claims | examined (37 CFR 1.129(b)) | | |
| over original patent | 1801 750 2801 375 Request for Continued Examination (RCE) | | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 900 1802 900 Request for expedited examination of a design application | | |
| SUBTOTAL (2) (\$) 18.00 | Other fee (specify) | | |
| **or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00 | | | |
| SUBMITTED BY (Complete (if applicable) | | | |

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Registration No.

(Attorney/Agent)

48,066

Telephone 520.794.7980

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PD-02W179

LOW PHASE-NOISE LOCAL OSCILLATOR AND METHOD

bv

MICHAEL R. BEYLOR, WESLEY H. DWELLY, VINH N. ADAMS, DENNIS C. BRAUNREITER AND HARRY A. SCHMITT

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to MAIL STOP PATENT APPLICATION, Commissioner for Patents, P. O. Box 1450, Alexadria, VA. 22313-1450

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(Typed or printed name of person mailing paper or fee)
(Signature of person moving paper or fee)

Date of Signature